

Javier Herrero Martin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,365
citations

21
h-index

32
g-index

109
ext. papers

1,638
ext. citations

4.6
avg, IF

4.04
L-index

#	Paper	IF	Citations
94	Magnetic properties of a highly ordered single crystal of the layered perovskite YBaCuFe _{0.95} Mn _{0.05} O ₅ . <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 551, 169165	2.8	0
93	Dynamic electric-field-induced magnetic effects in cobalt oxide thin films: towards magneto-ionic synapses.. <i>Nanoscale</i> , 2022 ,	7.7	5
92	Attosecond state-resolved carrier motion in quantum materials probed by soft x-ray XANES. <i>Applied Physics Reviews</i> , 2021 , 8, 011408	17.3	9
91	Magnetocapacitance effect and magnetoelectric coupling in type-II multiferroic HoFeWO ₆ . <i>Physical Review B</i> , 2021 , 103,	3.3	6
90	Tuning the tilting of the spiral plane by Mn doping in YBaCuFeO ₅ multiferroic. <i>Acta Materialia</i> , 2021 , 206, 116608	8.4	1
89	Route to tunable room temperature electric polarization in SrTiO-CoFeO heterostructures. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5977-5984	7.1	
88	Evidence for largest room temperature magnetic signal from Co ²⁺ in antiphase-free & fully inverted CoFe ₂ O ₄ in multiferroic-ferrimagnetic BiFeO ₃ -CoFe ₂ O ₄ nanopillar thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 530, 167940	2.8	1
87	Atomic origin of room-temperature two-dimensional itinerant ferromagnetism in an oxide-monolayer heterostructure. <i>Applied Materials Today</i> , 2021 , 24, 101101	6.6	0
86	Magnetic Frustration in a Zeolite. <i>Chemistry of Materials</i> , 2021 , 33, 9725-9731	9.6	
85	Orbital Hybridization and Magnetic Coupling at CuprateManganite Interfaces Driven by Manganite Doping. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000016	4.3	4
84	Enhanced Magnetism through Oxygenation of FePc/Ag(110) Monolayer Phases. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13993-14006	3.8	2
83	Embedded Magnetism in YBa ₂ Cu ₃ O ₇ Associated with Cu ²⁺ Vacancies within Nanoscale Intergrowths: Implications for Superconducting Current Performance. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3050-3059	5.6	2
82	Aqueous Chemical Solution Deposition of Functional Double Perovskite Epitaxial Thin Films. <i>Chemistry - A European Journal</i> , 2020 , 26, 9338-9347	4.8	7
81	Possible multiorbital ground state in CeCu ₂ Si ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	5
80	A New Highly Anisotropic Rh-Based Heusler Compound for Magnetic Recording. <i>Advanced Materials</i> , 2020 , 32, e2004331	24	1
79	The emergence of magnetic ordering at complex oxide interfaces tuned by defects. <i>Nature Communications</i> , 2020 , 11, 3650	17.4	10
78	Biodegradable Metal-Organic Framework-Based Microrobots (MOFBOTs). <i>Advanced Healthcare Materials</i> , 2020 , 9, e2001031	10.1	32

77	Magnetic properties of Cr-substituted $[(Fe_{1-x}Cr_x)_2O_3]$ nanoparticles with epsilon structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 506, 166764	2.8	3
76	Absence of Ferromagnetism in VSe_2 Caused by Its Charge Density Wave Phase. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27802-27810	3.8	52
75	Heteroleptic Iron(II) Spin-Crossover Complexes Based on a 2,6-Bis(pyrazol-1-yl)pyridine-type Ligand Functionalized with a Carboxylic Acid. <i>Inorganic Chemistry</i> , 2019 , 58, 12199-12208	5.1	6
74	Nonstoichiometry Driven Ferromagnetism in Double Perovskite $La_2Ni_{1-x}Mn_{1+x}O_6$ Insulating Thin Films. <i>Crystal Growth and Design</i> , 2019 , 19, 2765-2771	3.5	8
73	CrTe Thin Films for Integration in Magnetic Topological Insulator Heterostructures. <i>Scientific Reports</i> , 2019 , 9, 10793	4.9	16
72	Electronic and vibrational signatures of ruthenium vacancies in Sr_2RuO_4 thin films. <i>Physical Review Materials</i> , 2019 , 3,	3.2	6
71	Double-cell superstructure and vacancy ordering in tensile-strained metallic thin films of $Pr_{0.5}Ca_{0.5}CoO_3$ on $LaAlO_3$. <i>Physical Review Materials</i> , 2019 , 3,	3.2	2
70	Low-field switching of noncollinear spin texture at $La_{0.7}Sr_{0.3}MnO_3/BiRuO_3$ interfaces. <i>Physical Review B</i> , 2019 , 99,	3.3	14
69	Evolution of ground-state wave function in $CeCoIn_5$ upon Cd or Sn doping. <i>Physical Review B</i> , 2018 , 97,	3.3	9
68	Magnetic and electronic properties of the ferroelectric-photovoltaic ordered double perovskite $CaMnTi_2O_6$ investigated by x-ray absorption spectroscopies. <i>Physical Review B</i> , 2018 , 97,	3.3	7
67	Imposing long-range ferromagnetic order in rare-earth-doped magnetic topological-insulator heterostructures. <i>Physical Review Materials</i> , 2018 , 2,	3.2	14
66	Synthetic Antiferromagnetic Coupling Between Ultrathin Insulating Garnets. <i>Physical Review Applied</i> , 2018 , 10,	4.3	24
65	Hybrid $YBa_2Cu_3O_7$ Superconducting/Ferromagnetic Nanocomposite Thin Films Prepared from Colloidal Chemical Solutions. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700037	6.4	11
64	Electronically highly cubic conditions for Ru in $BuCl_3$. <i>Physical Review B</i> , 2017 , 96,	3.3	26
63	Electronic, spin-state, and magnetic transitions in $Ba_2Co_9O_{14}$ investigated by x-ray spectroscopies and neutron diffraction. <i>Physical Review B</i> , 2017 , 95,	3.3	2
62	Direct observation of multivalent states and 4f-3d charge transfer in Ce-doped yttrium iron garnet thin films. <i>Physical Review B</i> , 2017 , 96,	3.3	20
61	Magnetic anisotropy and valence states in $La_2Co_{1-x}Mn_{1+x}O_6$ ($x=0.23$) thin films studied by x-ray absorption spectroscopy techniques. <i>Physical Review B</i> , 2017 , 95,	3.3	13
60	Control of coexisting magnetic phases by electric fields in $NdFe_3(BO_3)_4$. <i>Physical Review B</i> , 2016 , 94,	3.3	5

59	Design and performance of BOREAS, the beamline for resonant X-ray absorption and scattering experiments at the ALBA synchrotron light source. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 1507-1517	7.4	75
58	Magnetostructural coupling, magnetic ordering, and cobalt spin reorientation in metallic Pr _{0.5} Sr _{0.5} CoO ₃ cobaltite. <i>Physical Review B</i> , 2016 , 94,	3.3	7
57	Magnetic stability against calcining of microwave-synthesized CoFe ₂ O ₄ nanoparticles. <i>New Journal of Chemistry</i> , 2016 , 40, 6890-6898	3.6	9
56	Emerging Diluted Ferromagnetism in High- Superconductors Driven by Point Defect Clusters. <i>Advanced Science</i> , 2016 , 3, 1500295	13.6	34
55	Electronic and spin states of SrRuO ₃ thin films: An x-ray magnetic circular dichroism study. <i>Physical Review B</i> , 2015 , 91,	3.3	21
54	Direct observation of noncollinear order of Co and Mn moments in multiferroic Mn _{0.85} Co _{0.15} WO ₄ . <i>Physical Review B</i> , 2015 , 91,	3.3	6
53	Epitaxial Stabilization of the Perovskite Phase in (Sr(1-x)Ba(x))MnO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23967-77	9.5	19
52	Spin-lattice coupling across the singular magnetostructural transition in Pr _{0.5} Sr _{0.5} CoO ₃ by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2015 , 92,	3.3	3
51	Hard and soft x-rays XAS characterization of charge ordered LuFe ₂ O ₄ . <i>Journal of Physics: Conference Series</i> , 2015 , 592, 012121	0.3	1
50	Structural properties and singular phase transitions of metallic Pr _{0.5} Sr _{0.5} CoO ₃ cobaltite. <i>Inorganic Chemistry</i> , 2014 , 53, 12297-304	5.1	5
49	Role of Pr cations and the low temperature transition in Pr _{0.5} Sr _{0.5} CoO ₃ : A comparison to Pr _{0.5} Ca _{0.5} CoO ₃ . <i>Physica B: Condensed Matter</i> , 2014 , 455, 56-59	2.8	3
48	Stability of the cationic oxidation states in Pr(0.5)Sr(0.5)CoO ₃ across the magnetostructural transition by X-ray absorption spectroscopy. <i>Inorganic Chemistry</i> , 2014 , 53, 8854-8	5.1	6
47	Resonant x-ray scattering in La _{1-x} Sr _{1+x} MnO ₄ (x0.5): Incommensurate-lattice modulation vs. Charge-stripe models. <i>Journal of Physics: Conference Series</i> , 2014 , 519, 012008	0.3	1
46	The low temperature magnetostructural transition in Pr _{0.5} Sr _{0.5} CoO ₃ : Bulk versus thin film behavior. <i>Journal of Applied Physics</i> , 2014 , 115, 17D721	2.5	2
45	Electronic states of RFe ₂ O ₄ (R=Lu,Yb,Tm,Y) mixed-valence compounds determined by soft x-ray absorption spectroscopy and x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2014 , 90,	3.3	5
44	Two-dimensional electron gases at LaAlO ₃ /SrTiO ₃ interfaces: orbital symmetry and hierarchy engineered by crystal orientation. <i>Physical Review Letters</i> , 2014 , 113, 156802	7.4	34
43	Tunnel-mediated coupling between antiferromagnetic thin films. <i>Physical Review B</i> , 2014 , 90,	3.3	7
42	Ground state and the metal-insulator transition in (Pr _{1-y} Y _y) _{1-x} Ca _x CoO ₃ (0.45 ≤ x ≤ 0.55) cobaltites. <i>Journal of the Korean Physical Society</i> , 2013 , 63, 791-794	0.6	2

41	Origin of incommensurate satellite reflections on TbMnO ₃ by resonant x-ray scattering. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012101	0.3	1
40	Determination of incommensurate lattice modulations in La _{0.4} Sr _{1.6} MnO ₄ by resonant r-ray scattering. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012107	0.3	1
39	Structural distortion, charge modulation and local anisotropies in magnetite below the Verwey transition using resonant X-ray scattering. <i>Journal of Synchrotron Radiation</i> , 2012 , 19, 159-73	2.4	17
38	Mn K edge resonant X-ray scattering of half-doped manganites. <i>European Physical Journal: Special Topics</i> , 2012 , 208, 107-119	2.3	1
37	REXS contribution to electronic ordering investigation in solids. <i>European Physical Journal: Special Topics</i> , 2012 , 208, 89-98	2.3	16
36	Magnetic frustration, phase competition, and the magnetoelectric effect in NdFe ₃ (BO ₃) ₄ . <i>Physical Review Letters</i> , 2012 , 109, 267202	7.4	21
35	Spin state and structural changes at the metal-insulator transition in YBaCo ₂ O _{5.5} by synchrotron x-rays). <i>Journal of Applied Physics</i> , 2012 , 111, 07D710	2.5	6
34	Incommensurate sinusoidal oxygen modulations in layered manganites La _(1-x) Sr _(1+x) MnO ₄ (x _{0.5}). <i>Physical Review Letters</i> , 2012 , 109, 107202	7.4	8
33	Spin-state transition in Pr _{0.5} Ca _{0.5} CoO ₃ analyzed by x-ray absorption and emission spectroscopies. <i>Physical Review B</i> , 2012 , 86,	3.3	39
32	Strong coupling of Sm and Fe magnetism in SmFeAsO as revealed by magnetic x-ray scattering. <i>Physical Review B</i> , 2011 , 84,	3.3	27
31	Femtosecond magnetically induced lattice distortions in multiferroic TbMnO ₃ . <i>Science</i> , 2011 , 333, 1273-6	33.3	79
30	EuFe ₂ As ₂ : Magnetic Structure and Local Charge Distribution Anisotropies as Seen by Resonant X-ray Scattering. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 705-709	1.5	4
29	Structural changes at the semiconductor-insulator phase transition in the single-layered perovskite La _{0.5} Sr _{1.5} MnO ₄ . <i>Physical Review B</i> , 2011 , 83,	3.3	22
28	Valence change of praseodymium in Pr _{0.5} Ca _{0.5} CoO ₃ investigated by x-ray absorption spectroscopy. <i>Physical Review B</i> , 2011 , 84,	3.3	41
27	Hard x-ray probe to study doping-dependent electron redistribution and strong covalency in La _{1-x} Sr _{1+x} MnO ₄ . <i>Physical Review B</i> , 2010 , 82,	3.3	21
26	Symmetry and charge order in Fe ₂ OBO ₃ studied through polarized resonant x-ray diffraction. <i>Physical Review B</i> , 2010 , 82,	3.3	13
25	Structural, electrical and magnetic properties of RE _{1/3} Sr _{2/3} FeO ₃ compounds (RE = La, Pr, Nd, Eu and Gd). <i>Journal of Physics: Conference Series</i> , 2010 , 200, 012015	0.3	3
24	Electron doping versus antisite defects: Structural and magnetic properties of Sr _{2-x} LaxCrMoO ₆ and Sr _{2-x} LaxCr _{1+x/2} Mo _{1-x/2} O ₆ perovskites. <i>Solid State Sciences</i> , 2010 , 12, 750-758	3.4	8

23	On the correlation between the X-ray absorption chemical shift and the formal valence state in mixed-valence manganites. <i>Journal of Synchrotron Radiation</i> , 2010 , 17, 386-92	2.4	28
22	Order-disorder nature of the antiferroelectric transition in Pb(2)MnWO(6). <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 075903	1.8	11
21	Evidence for charge-density-wave nature of the charge-ordered phase in La _{1/3} Sr _{2/3} FeO ₃ . <i>Physical Review B</i> , 2009 , 79,	3.3	29
20	Magnetic structure of EuFe ₂ As ₂ as determined by resonant x-ray scattering. <i>Physical Review B</i> , 2009 , 80,	3.3	51
19	Reexamination of the temperature dependences of resonant reflections in highly stoichiometric magnetite. <i>Physical Review Letters</i> , 2009 , 102, 176405	7.4	29
18	Probing and comparing electron doping and miss-site effects in Re-based double perovskites. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 216008	1.8	3
17	Resonant x-ray scattering in 3d-transition-metal oxides: Anisotropy and charge orderings. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012085	0.3	6
16	Electron doping effects on Sr ₂ FeReO ₆ . <i>Solid State Sciences</i> , 2009 , 11, 1535-1541	3.4	11
15	Orbital order at Mn and O sites and absence of Zener polaron formation in manganites. <i>Physical Review Letters</i> , 2009 , 103, 097205	7.4	15
14	Charge and orbital ordering in Fe and Mn perovskite oxides far from half-doping by resonant x-ray scattering. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012086	0.3	
13	Soft resonant x-ray scattering in highly stoichiometric magnetite. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012088	0.3	1
12	Resonant x-ray scattering at the forbidden reflections in Mn ³⁺ perovskites RE MnO ₃ (RE:La and Tb). <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012087	0.3	
11	Charge disproportionation in La _{1-x} Sr _x FeO ₃ probed by diffraction and spectroscopic experiments. <i>Physical Review B</i> , 2008 , 77,	3.3	73
10	The checkerboard pattern of Bi(0.63)Sr(0.37)MnO(3) determined using resonant x-ray scattering at the Mn K edge. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 235211	1.8	7
9	Resonant x-ray scattering study of layered TbBaCo ₂ O _{5.5} . <i>Physical Review B</i> , 2008 , 78,	3.3	8
8	Growth of Sr _{2/3} Ln _{1/3} FeO ₃ (Ln=La, Pr, and Nd) single crystals by the floating zone technique. <i>Journal of Crystal Growth</i> , 2008 , 310, 3247-3250	1.6	26
7	Origin of the resonant x-ray scattering in LaMnO ₃ . <i>Physical Review B</i> , 2007 , 75,	3.3	21
6	Double stripe ordering in Nd _{0.5} Sr _{0.5} MnO ₃ determined by resonant soft x-ray scattering. <i>Physical Review B</i> , 2006 , 73,	3.3	17

5	XAS Study of A_2FeMoO_6 Double Perovskite. <i>Physica Scripta</i> , 2005 , 471	2.6	2
4	X-ray absorption spectroscopic study on A_2FeReO_6 double perovskites. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, 4963-4976	1.8	14
3	Polarized x-ray absorption spectra of $La_{1-x}Sr_{1+x}MnO_4$: Electronic state of Mn atoms. <i>Physical Review B</i> , 2005 , 72,	3.3	25
2	Structural origin of dipole x-ray resonant scattering in the low-temperature phase of $Nd_{0.5}Sr_{0.5}MnO_3$. <i>Physical Review B</i> , 2004 , 70,	3.3	84
1	An x-ray spectroscopic study of A_2FeMoO_6 and $Sr_2Fe_{1-x}Cr_xMoO_6$ double perovskites. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 6877-6890	1.8	11